

ROBOT ARM C



Checklist – 2017

Team Number: C ___ Team Name: _____ Rank: _____

Student Names: _____ Final Score: _____

Check In Items

3.e. Competitors use legal and permitted frequencies for the radio-controlled equipment for surface devices. Y N

7.i.iv. Device has the capability, by design and construction, to score points via moving pennies. Y N

7.i.iv. Device is able to compete. Y N

DOES THIS DEVICE SATISFY THE ABOVE CHECK IN ITEMS? 1. Y N

4. Is the Technical Documentation complete, incomplete or not present? (Circle One) 2. Complete / Incomplete / Missing

7.e. Number of items the competitors correctly identify at check-in (max = 6) 3. _____

Construction Parameters

3.a. In the ready-to-run position, all parts (except the control box(es), separate power supplies & their connections) fit inside an imaginary 25.0 cm x 25.0 cm x 100.0 cm high rectangular prism. The Device is attached to the Device Square only by force of gravity. Y N

3.b. Any commercial kits used have at least one functional modification. Y N

3.c. Pneumatic storage devices do not start with positive gauge pressures. Y N

3.d. Commercial batteries do not exceed 14.4 volts as labeled and if multiple batteries are connected, the expected voltage output across any two points does not exceed 14.4 volts as calculated using their labeled voltage. All energy storage devices are contained in the Device, power supply, or controller (s). Lead-acid batteries are not used and Laptops/tablets are not connected to a wall outlet. Y N

IS THIS DEVICE FREE OF ANY CONSTRUCTION VIOLATIONS ABOVE 4. Y N

Run 1

Number of pennies lying completely flat in the zones below listed by their radius from the center of the target	< 4.0cm	4.0cm-8.0cm	8.0cm-12.0cm	12.0cm-16.0cm	16.0-20.0cm
Heads side up	5. _____	6. _____	7. _____	8. _____	9. _____
Tails side up	10. _____	11. _____	12. _____	13. _____	14. _____

7.c. All parts of the Arm(s) & Base are within the vertical space above the Device Square at the end of the run. 15. Y N

7.h. Duration of the run. 16. _____

6.f. Pennies and Target are not damaged and remain unusable for other teams. 17. Y N

Run 2

Number of pennies lying completely flat in the zones below listed by their radius from the center of the target	< 4.0cm	4.0cm-8.0cm	8.0cm-12.0cm	12.0cm-16.0cm	16.0-20.0cm
Heads side up	18. _____	19. _____	20. _____	21. _____	22. _____
Tails side up	23. _____	24. _____	25. _____	26. _____	27. _____

7.c. All parts of the Arm(s) & Base are within the vertical space above the Device Square at the end of the run. 28. Y N

7.h. Duration of the run. 29. _____

6.f. Pennies and Target are not damaged and remain unusable for other teams. 30. Y N

General Rule: Disqualified (notify the team and their coach as soon as possible) 31. Y N